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	APPLICATION NO.	FILING DATE	FIRST NAMED IN	IVENTOR		ATTORNEY DOCKET NO.
	09/502,698	02/11/00	FUNAHASHI		S	06501-056001
Γ	_			コ		EXAMINER
•			HM12/0425	'		·
Janis K. Fraser Fish & Richardson P.C.			,	MERTZ.	P	
		1		ART UNIT	PAPER NUMBER	
	225 Frankli Boston MA 0	· · · <del> •</del>			1646 DATE MAILED:	7
						04/25/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

Application No.

09/502,698

Applicant(s)

Funahashi et al.

Office Action Summary

Examiner

Art Unit



		Prema Mertz	1646
	The MAILING DATE of this communication appears	on the cover sheet with the corres	pondence address
A SHO	or Reply  DRTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE1 MONTH	H(S) FROM
aft - If the be - If NO co - Failur - Any r	sions of time may be available under the provisions of 37 Cler SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days considered timely.  period for reply is specified above, the maximum statutory mmunication.  e to reply within the set or extended period for reply will, by eply received by the Office later than three months after the reply patent term adjustment. See 37 CFR 1.704(b).	ation.  , a reply within the statutory minimun  period will apply and will expire SIX (6  r statute, cause the application to bec	n of thirty (30) days will  6) MONTHS from the mailing date of this  come ABANDONED (35 U.S.C. § 133).
Status			
	Responsive to communication(s) filed on Feb 1, 20	000	
2a) 🗆	This action is <b>FINAL</b> . 2b) ☑ This act	tion is non-final.	
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under $Ex\ pa$	except for formal matters, prose orte Quayle, 1935 C.D. 11; 453	cution as to the merits is O.G. 213.
Disposit	tion of Claims		
4) 💢	Claim(s) 1-34	is/are	e pending in the application.
4	a) Of the above, claim(s)	is/ar	e withdrawn from consideration.
5) 🗆	Claim(s)		is/are allowed.
6) 🗆	Claim(s)		is/are rejected.
7) 🗆	Claim(s)	<u> </u>	is/are objected to.
8) 💢	Claims <u>1-34</u>	are subject to restric	ction and/or election requirement.
Applica	tion Papers		
9) 🗆	The specification is objected to by the Examiner.		
10)□	The drawing(s) filed on is/are		_
11)	The proposed drawing correction filed on	is: a) 🗌 approved	b)□ disapproved.
12)	The oath or declaration is objected to by the Exam	iner.	
13)□ a)□	under 35 U.S.C. § 119  Acknowledgement is made of a claim for foreign p  All b)□ Some* c)□ None of:  1.□ Certified copies of the priority documents have		)-(d).
	2. Certified copies of the priority documents have		No
	3. Copies of the certified copies of the priority d application from the International Bure ee the attached detailed Office action for a list of th	eau (PCT Rule 17.2(a)).	this National Stage
14)	Acknowledgement is made of a claim for domestic		(e).
Attachm	ent(s)		
_	otice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Peper	r No(s)
	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application	(PTO-152)
17) 🔲 In	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:	

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## **DETAILED ACTION**

## Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- Group I. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:1, classified in Class 530, subclass 350.
- Group II. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:2, classified in Class 530, subclass 350.
- Group III. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:82, classified in Class 530, subclass 350.
- Group IV. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:83, classified in Class 530, subclass 350.
- Group V. Claims 1-5 are drawn to a polypeptide comprising SEQ ID NO:84, classified in Class 530, subclass 350.
- Group VI. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:1, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.
- Group VII. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:2, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

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Group VIII. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:82, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

Group IX. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:83, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

Group X. Claims 6-23, 25, 32-34 are drawn to a polynucleotide encoding a polypeptide of SEQ ID NO:84, a vector, a host cell and a process for producing a polypeptide, classified in Class 435, subclass 69.1.

Group XI. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:1, classified in Class 530, subclass 387.1.

Group XII. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:2, classified in Class 530, subclass 387.1.

Group XIII. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:82, classified in Class 530, subclass 387.1.

Group XIV. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:83, classified in Class 530, subclass 387.1.

Group XV. Claim 24 is drawn to antibody to the polypeptide of SEQ ID NO:84, classified in Class 530, subclass 387.1.

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Group XVI. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:1, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XVII. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:2, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XVIII. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:82, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XIX. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:83, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

Group XX. Claims 26-31, are drawn to a method of screening for a compound that binds the polypeptide of SEQ ID NO:84, the compound and a gene encoding the compound, classified in Class 435, subclass 7.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-XV are independent and distinct, each from the other, because they are products which possess characteristic differences in structure and function and each has an independent utility, that is distinct for each invention which cannot be exchanged. The polynucleotides of each of inventions VI-X can be used to make a hybridization probe or can be used in gene therapy as well as

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in the production of the protein of interest. The proteins of inventions I-V can be used as a probe,

or used therapeutically or diagnostically, e.g. in screening. The antibodies of inventions XI-XV can

be used to obtain the specific polynucleotides of Groups VI-X, respectively, and can also be used in

diagnostics, e.g. as a probe in immunoassays. The polynucleotide of Group VI can only be used to

obtain the polypeptide of Group I and no other polypeptide and similarly, the polynucleotide of

Group VII can only be used to obtain the polypeptide of Group II and no other polypeptide

Inventions VI-X and I-V are related as processes of making and products made. The

inventions are distinct if either or both of the following can be shown: (1) that the process as claimed

can be used to make other and materially different product or (2) that the product as claimed can be

made by another and materially different process (MPEP § 806.05(f)). In the instant case the proteins

can be prepared by materially different processes, such as by chemical synthesis, or obtained from

nature using various isolation and purification protocols.

Inventions I-V and XVI-XX are related as products and processes of use. The inventions can

be shown to be distinct if either or both of the following can be shown: (1) the process for using the

product as claimed can be practiced with another materially different product or (2) the product as

claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In

the instant case each of the products as claimed can be used as antigens in the production of

antibodies.

Inventions VI-XV and XVI-XX are unrelated. Inventions are unrelated if it can be shown that

they are not disclosed as capable of use together, or they have different modes of operation, or they

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have different functions, or they have different effects. (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together.

Inventions XVI-XX are independent and distinct, each from the other, because the methods are practiced with materially different starting materials for materially different purposes and each method requires a non-coextensive search because of different starting materials and goals.

Having shown that these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and recognized divergent subject matter as defined by MPEP § 808.02, the Examiner has *prima facie* shown a serious burden of search (see MPEP § 803). Therefore, an initial requirement of restriction for examination purposes as indicated is proper.

2. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 C.F.R 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

## Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prema Mertz whose telephone number is (703) 308-4229. The examiner can normally be reached on Monday-Friday from 8:00AM to 4:30PM (Eastern time).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached on (703) 308-6564.

Official papers filed by fax should be directed to (703) 308-4227. Faxed draft or informal communications with the examiner should be directed to (703) 308-0294.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Prema Mertz Ph.D. Patent Examiner Art Unit 1646 April 24, 2001